

Title (en)

METHOD OF REDUCING ALPHA, BETA- UNSATURATED KETONES IN OPIOID COMPOSITIONS

Title (de)

VERFAHREN ZUR VERMINDERUNG VON ALPHA, BETA-UNGESÄTTIGTEN KETONEN IN OPIOIDZUSAMMENSETZUNGEN

Title (fr)

PROCÉDÉ DE RÉDUCTION DE CÉTONES INSATURÉES ALPHA ET BÊTA DANS DES COMPOSITIONS D'OPIOÏDES

Publication

**EP 1861405 B1 20090429 (EN)**

Application

**EP 06707309 A 20060227**

Priority

- EP 2006001798 W 20060227
- US 65879105 P 20050304

Abstract (en)

[origin: WO2006094672A1] The present invention is directed to a process for reducing the level of  $\alpha$ ,  $\beta$ - unsaturated ketone in an opioid analgesic composition by hydrogenation with diimide or a diimide progenitor.

IPC 8 full level

**C07D 487/08** (2006.01)

CPC (source: EP KR US)

**A61K 31/439** (2013.01 - KR); **A61P 29/00** (2017.12 - EP); **C07D 487/08** (2013.01 - EP US); **C07D 489/02** (2013.01 - KR)

Cited by

WO2011117172A1; EP2377866A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**WO 2006094672 A1 20060914**; AT E430153 T1 20090515; AT E487722 T1 20101115; CA 2598774 A1 20060914; CA 2598774 C 20101221; CN 101133062 A 20080227; CN 101133062 B 20140806; CY 1109262 T1 20140702; CY 1111241 T1 20150611; DE 602006006558 D1 20090610; DE 602006018208 D1 20101223; DK 1861405 T3 20090720; DK 2112153 T3 20110214; EP 1861405 A1 20071205; EP 1861405 B1 20090429; EP 2112153 A1 20091028; EP 2112153 B1 20101110; ES 2326491 T3 20091013; ES 2355870 T3 20110331; HK 1111695 A1 20080815; HK 1135107 A1 20100528; HR P20090387 T1 20090831; HR P20110078 T1 20110331; JP 2008531626 A 20080814; JP 5314894 B2 20131016; KR 100941761 B1 20100211; KR 20070108931 A 20071113; ME 01184 B 20130320; ME 01594 B 20140920; PL 1861405 T3 20091030; PL 2112153 T3 20110429; PT 1861405 E 20090727; PT 2112153 E 20101217; RS 51131 B 20101031; RS 51568 B 20110831; SI 1861405 T1 20091031; SI 2112153 T1 20110228; US 2008132702 A1 20080605; US 7939543 B2 20110510

DOCDB simple family (application)

**EP 2006001798 W 20060227**; AT 06707309 T 20060227; AT 09158939 T 20060227; CA 2598774 A 20060227; CN 200680006690 A 20060227; CY 091100790 T 20090723; CY 111100129 T 20110203; DE 602006006558 T 20060227; DE 602006018208 T 20060227; DK 06707309 T 20060227; DK 09158939 T 20060227; EP 06707309 A 20060227; EP 09158939 A 20060227; ES 06707309 T 20060227; ES 09158939 T 20060227; HK 08102671 A 20080306; HK 10103566 A 20100413; HR P20090387 T 20090707; HR P20110078 T 20110201; JP 2007557403 A 20060227; KR 20077022566 A 20060227; ME P1711 A 20060227; ME P24809 A 20060227; PL 06707309 T 20060227; PL 09158939 T 20060227; PT 06707309 T 20060227; PT 09158939 T 20060227; RS P20090347 A 20060227; RS P20110031 A 20060227; SI 200630344 T 20060227; SI 200630885 T 20060227; US 88540206 A 20060227